

## ROLLING BEARING

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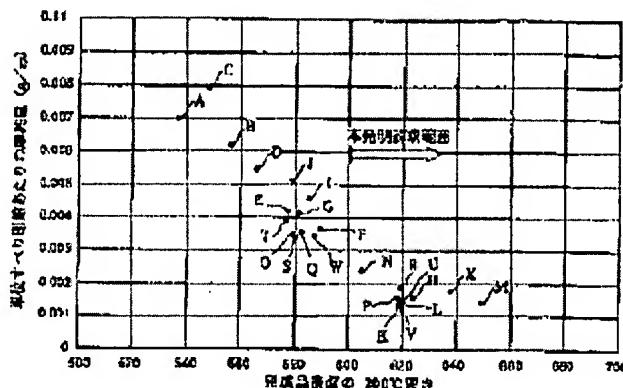
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### Abstract of JP10068419

**PROBLEM TO BE SOLVED:** To provide a rolling bearing which can surely have wear resistance under severe conditions and improve its life. **SOLUTION:** A race (outer ring, inner ring) and a rolling body (ball) have hardness of not less than 600HV at 300 deg.C at the surfaces thereof and are constituted by carbides and carbonitride deposited on the surface whose maximum particle size is not more than 5 $\mu$ m. Since the surface hardness is specified at a high temperature of 300 deg.C, the race and the rolling body has surely wear resistance of not less than a predetermined value to improve the life of a bearing. Since the maximum particle size of the carbides and carbonitrides deposited on the surface are not more than 5 $\mu$ m by hardening of the surface, roughness of the surface caused by wear is reduced to improve wear resistance and durability life of the bearing.



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